

Tuesday, September 24, 2013

Tom Givetz  
New Hampshire Fish and Game Powder Mill  
288 Merrymeeting Road  
New Durham NH 03855

**Project Name:** Powder Mill Hatchery  
**Project #:** N/A  
**Project Location:** New Durham, NH  
**Control #:** 95346

**Lab ID:** 13090102

**Date Received:** 9/10/2013

Dear Tom Givetz

Enclosed please find the laboratory results for the above referenced samples that were received by the ChemServe sample custodian on the above referenced date. Any abnormalities to the samples upon receipt would be noted on the enclosed chain of custody document. This report is not valid without a completed chain of custody with the corresponding control number, attached.

All samples analyzed by ChemServe are subject to quality standards. These standards are as stringent or more stringent than those established under NELAC, 40 CFR Part 136, state certification programs, and corresponding methodologies. ChemServe has a written QA/QC Procedures Manual that outlines these standards, and is available for your reference, upon request. Unless otherwise stated on the Chain of Custody or within the report, all holding times, preservation techniques, container types, and analytical methods are analogous with those outlined by NELAC. All units are based on "as received" weight unless denoted "dry".

I certify that I have reviewed the above referenced analytical data and state forms, and I have found this report within compliance with the procedures outlined within NELAC. ChemServe's certified parameter list can be found at <http://www.chemservelab.com/Laboratory-Information-and-Documentation.aspx>

A handwritten signature in black ink, appearing to read "Jay Chrystal".

Jay Chrystal - President/Laboratory Director

New Hampshire Fish and Game Powder Mill

Tom Givetz

288 Merrymeeting Road

New Durham NH 03855

Control #: 95346

Project Number: N/A

Project Name: Powder Mill Hatchery

Project Location: New Durham, NH

Lab ID: 13090102

Date: 9/24/2013

Lab ID: 13090102

### Sample Receiving and Comment Summary

|   |     |
|---|-----|
| Were samples submitted with a chain of custody?                                     | Yes |
| Do all samples received match the chain of custody?                                 | Yes |
| Were all samples received within applicable holding times?                          | Yes |
| Were all containers intact when received?   | Yes |
| Was there evidence of cooling if required?  | Yes |
| Were samples for volatile organic analysis free of headspace (per method)?          | N/A |
| Was the cooler temperature recorded if applicable?                                  | Yes |
| If the sample pH was not correct was it adjusted where applicable?                  | Yes |
| Were samples for dissolved metals already filtered by the client or field sampling? | N/A |
| Were Samples for O-phos filtered in the field?                                      | N/A |

| Sample       | Method    | Client Identity | Matrix     | Analyst   |
|--------------|-----------|-----------------|------------|-----------|
| 13090102-002 | EPA 200.7 | 002 L.S.        | Wastewater | CharleneF |

Comment: no comment

\* Blank comment sections denote "No Comment"



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New Hampshire Fish and Game Powder Mill

Tom Givetz  
288 Merrymeeting Road  
New Durham NH 03855

Control #: 95346  
Project Number: N/A  
Project Name: Powder Mill Hatchery  
Project Location: New Durham, NH

Analytical Results

Lab ID: 13090102  
Date: 9/24/2013

| Sample       | Method    | Client Sample Identity | Units | Matrix     | Analyst   |
|--------------|-----------|------------------------|-------|------------|-----------|
| 13090102-001 | EPA 200.7 | 001 N.D.               |       | Wastewater | CharleneF |

Start Date/Time Sampled: 9/9/2013 8:28:00 AM Composite End Date/Time: 9/10/2013 8:28:00 AM

| Parameter           | CAS Number | Result    | Qualifier | Date/Time Analyzed | Dilution Factor | RDL  |
|---------------------|------------|-----------|-----------|--------------------|-----------------|------|
| Hot Plate Digestion |            |           |           | 9/13/2013          | 1               | 0    |
| Phosphorous-P Total | 7723-14-0  | 0.03 mg/L |           | 9/13/2013          | 1               | 0.01 |

| Sample       | Method    | Client Sample Identity | Units | Matrix     | Analyst   |
|--------------|-----------|------------------------|-------|------------|-----------|
| 13090102-001 | EPA 300.0 | 001 N.D.               | mg/L  | Wastewater | MichelleG |

Start Date/Time Sampled: 9/9/2013 8:28:00 AM Composite End Date/Time: 9/10/2013 8:28:00 AM

| Parameter | CAS Number | Result   | Qualifier | Date/Time Analyzed   | Dilution Factor | RDL |
|-----------|------------|----------|-----------|----------------------|-----------------|-----|
| Nitrate   |            | < 1 mg/L |           | 9/11/2013 1:21:00 PM | 1               | 1   |

| Sample       | Method   | Client Sample Identity | Units | Matrix     | Analyst |
|--------------|----------|------------------------|-------|------------|---------|
| 13090102-001 | In House | 001 N.D.               | mg/L  | Wastewater | LauraB  |

Start Date/Time Sampled: 9/9/2013 8:28:00 AM Composite End Date/Time: 9/10/2013 8:28:00 AM

| Parameter      | CAS Number | Result   | Qualifier | Date/Time Analyzed | Dilution Factor | RDL |
|----------------|------------|----------|-----------|--------------------|-----------------|-----|
| Total Nitrogen |            | < 1 mg/L |           | 9/18/2013          | 1               | 1   |

| Sample       | Method   | Client Sample Identity | Units | Matrix     | Analyst |
|--------------|----------|------------------------|-------|------------|---------|
| 13090102-001 | SM 2540D | 001 N.D.               | mg/L  | Wastewater | LauraB  |

Start Date/Time Sampled: 9/9/2013 8:28:00 AM Composite End Date/Time: 9/10/2013 8:28:00 AM

| Parameter              | CAS Number | Result   | Qualifier | Date/Time Analyzed | Dilution Factor | RDL |
|------------------------|------------|----------|-----------|--------------------|-----------------|-----|
| Total Suspended Solids |            | < 2 mg/L |           | 9/14/2013          | 0.5             | 2   |

| Sample       | Method        | Client Sample Identity | Units | Matrix     | Analyst |
|--------------|---------------|------------------------|-------|------------|---------|
| 13090102-001 | SM 4500-NH3-C | 001 N.D.               | mg/L  | Wastewater | LauraB  |

Start Date/Time Sampled: 9/9/2013 8:28:00 AM Composite End Date/Time: 9/10/2013 8:28:00 AM

| Parameter | CAS Number | Result     | Qualifier | Date/Time Analyzed | Dilution Factor | RDL |
|-----------|------------|------------|-----------|--------------------|-----------------|-----|
| Ammonia-N |            | < 0.2 mg/L |           | 9/18/2013          | 1               | 0.2 |

| Sample                   | Method     | Client Sample Identity | Units                    | Matrix               | Analyst              |     |
|--------------------------|------------|------------------------|--------------------------|----------------------|----------------------|-----|
| 13090102-001             | SM 5210B   | 001 N.D.               | mg/L                     | Wastewater           | SarahP               |     |
| Start Date/Time Sampled: |            | 9/9/2013 8:28:00 AM    | Composite End Date/Time: |                      | 9/10/2013 8:28:00 AM |     |
| Parameter                | CAS Number | Result                 | Qualifier                | Date/Time Analyzed   | Dilution Factor      | RDL |
| BOD                      |            | 2.00 mg/L              |                          | 9/11/2013 9:00:00 AM | 1                    | 1   |

| Sample                   | Method            | Client Sample Identity | Units                    | Matrix             | Analyst              |     |
|--------------------------|-------------------|------------------------|--------------------------|--------------------|----------------------|-----|
| 13090102-001             | SM4500-Norg/NH3-B | 001 N.D.               | mg/L                     | Wastewater         | LauraB               |     |
| Start Date/Time Sampled: |                   | 9/9/2013 8:28:00 AM    | Composite End Date/Time: |                    | 9/10/2013 8:28:00 AM |     |
| Parameter                | CAS Number        | Result                 | Qualifier                | Date/Time Analyzed | Dilution Factor      | RDL |
| Kjeldahl-N               | 5228003-90-0      | < 0.5 mg/L             |                          | 9/19/2013          | 1                    | 0.5 |

| Sample                   | Method     | Client Sample Identity | Units                    | Matrix             | Analyst              |      |
|--------------------------|------------|------------------------|--------------------------|--------------------|----------------------|------|
| 13090102-002             | EPA 200.7  | 002 L.S.               |                          | Wastewater         | CharleneF            |      |
| Start Date/Time Sampled: |            | 9/9/2013 8:35:00 AM    | Composite End Date/Time: |                    | 9/10/2013 8:35:00 AM |      |
| Parameter                | CAS Number | Result                 | Qualifier                | Date/Time Analyzed | Dilution Factor      | RDL  |
| Hot Plate Digestion      |            |                        |                          | 9/13/2013          | 1                    | 0    |
| Phosphorous-P Total      | 7723-14-0  | 0.11 mg/L              |                          | 9/13/2013          | 1                    | 0.01 |

| Sample                   | Method     | Client Sample Identity | Units                    | Matrix               | Analyst              |     |
|--------------------------|------------|------------------------|--------------------------|----------------------|----------------------|-----|
| 13090102-002             | EPA 300.0  | 002 L.S.               | mg/L                     | Wastewater           | MichelleG            |     |
| Start Date/Time Sampled: |            | 9/9/2013 8:35:00 AM    | Composite End Date/Time: |                      | 9/10/2013 8:35:00 AM |     |
| Parameter                | CAS Number | Result                 | Qualifier                | Date/Time Analyzed   | Dilution Factor      | RDL |
| Nitrate                  |            | < 1 mg/L               |                          | 9/11/2013 1:38:00 PM | 1                    | 1   |

| Sample                   | Method     | Client Sample Identity | Units                    | Matrix             | Analyst              |     |
|--------------------------|------------|------------------------|--------------------------|--------------------|----------------------|-----|
| 13090102-002             | In House   | 002 L.S.               | mg/L                     | Wastewater         | LauraB               |     |
| Start Date/Time Sampled: |            | 9/9/2013 8:35:00 AM    | Composite End Date/Time: |                    | 9/10/2013 8:35:00 AM |     |
| Parameter                | CAS Number | Result                 | Qualifier                | Date/Time Analyzed | Dilution Factor      | RDL |
| Total Nitrogen           |            | < 1 mg/L               |                          | 9/18/2013          | 1                    | 1   |

| Sample                   | Method     | Client Sample Identity | Units                    | Matrix             | Analyst              |     |
|--------------------------|------------|------------------------|--------------------------|--------------------|----------------------|-----|
| 13090102-002             | SM 2540D   | 002 L.S.               | mg/L                     | Wastewater         | LauraB               |     |
| Start Date/Time Sampled: |            | 9/9/2013 8:35:00 AM    | Composite End Date/Time: |                    | 9/10/2013 8:35:00 AM |     |
| Parameter                | CAS Number | Result                 | Qualifier                | Date/Time Analyzed | Dilution Factor      | RDL |
| Total Suspended Solids   |            | < 2 mg/L               |                          | 9/14/2013          | 0.5                  | 2   |

| Sample       | Method        | Client Sample Identity | Units | Matrix     | Analyst |
|--------------|---------------|------------------------|-------|------------|---------|
| 13090102-002 | SM 4500-NH3-C | 002 L.S.               | mg/L  | Wastewater | LauraB  |

Start Date/Time Sampled: 9/9/2013 8:35:00 AM Composite End Date/Time: 9/10/2013 8:35:00 AM

| Parameter | CAS Number | Result     | Qualifier | Date/Time Analyzed | Dilution Factor | RDL |
|-----------|------------|------------|-----------|--------------------|-----------------|-----|
| Ammonia-N |            | < 0.2 mg/L |           | 9/18/2013          | 1               | 0.2 |

| Sample       | Method   | Client Sample Identity | Units | Matrix     | Analyst |
|--------------|----------|------------------------|-------|------------|---------|
| 13090102-002 | SM 5210B | 002 L.S.               | mg/L  | Wastewater | SarahP  |

Start Date/Time Sampled: 9/9/2013 8:35:00 AM Composite End Date/Time: 9/10/2013 8:35:00 AM

| Parameter | CAS Number | Result    | Qualifier | Date/Time Analyzed   | Dilution Factor | RDL |
|-----------|------------|-----------|-----------|----------------------|-----------------|-----|
| BOD       |            | 3.00 mg/L |           | 9/11/2013 9:00:00 AM | 1               | 1   |

| Sample       | Method            | Client Sample Identity | Units | Matrix     | Analyst |
|--------------|-------------------|------------------------|-------|------------|---------|
| 13090102-002 | SM4500-Norg/NH3-B | 002 L.S.               | mg/L  | Wastewater | LauraB  |

Start Date/Time Sampled: 9/9/2013 8:35:00 AM Composite End Date/Time: 9/10/2013 8:35:00 AM

| Parameter  | CAS Number   | Result     | Qualifier | Date/Time Analyzed | Dilution Factor | RDL |
|------------|--------------|------------|-----------|--------------------|-----------------|-----|
| Kjeldahl-N | 5228003-90-0 | < 0.5 mg/L |           | 9/19/2013          | 1               | 0.5 |

**Qualifier: Description:**

|       |  |
|-------|--|
| B-    | Method blank contaminated with target analyte.   |
| B1-   | BOD had total oxygen loss. Result reported as ">"the highest dilution.   |
| B2-   | BOD had no oxygen loss. Result reported as "<" the lowest dilution.  |
| G-    | Reporting limit elevated due to matrix interference.   |
| H-    | Method prescribed holding time exceeded.   |
| J-    | Indicates an estimated value. Value is less than the quantitation limit.   |
| LH-   | Laboratory control spike(s) was high. Results may be biased high.  |
| LL-   | Laboratory control spike(s) was low. Results may be biased low.  |
| MH-   | Matrix spike recovery high due to matrix. Results may be biased high.  |
| ML-   | Matrix spike recovery low due to matrix. Results may be biased low.  |
| NC-   | Spike recovery was not calculated due to the concentration of the analyte being >4 times the concentration of the spike added. |
| R-    | RPD outside acceptable recovery limits.  |
| RO-   | Sample received out of holding time.   |
| SH-   | Surrogate recovery high due to matrix  |
| SL-   | Surrogate recovery low due to matrix   |
| TNTC- | Too numerous to count.   |
| U-    | BOD/CBOD blank had an oxygen depletion greater than the suggested amount of 0.200.   |
| V-    | Sample pH for volatile analysis was not <2 when checked at time of analysis.   |

Chain of Custody No. 95346  
Multiple COC's Yes No



CHAIN OF CUSTODY

317 Elm Street Milford, NH 03055  
(603) 673-5440 / Fax (603) 673-0366

| A CUSTOMER INFORMATION                    |                                  |           |             | B PROJECT INFORMATION                |      |        |                 | C SAMPLE INFORMATION  |  |  |  |                                 |  |  |  |
|---|----------------------------------|-----------|-------------|--------------------------------------|------|--------|-----------------|---|--|--|--|---------------------------------|--|--|--|
| CUSTOMER: <u>N.H. Fish &amp; Game</u>     |                                  |           |             | JOB NAME: <u>Powder Mill Habitat</u> |      |        |                 | TURNAROUND TIME: (CIRCLE ONE)<br>10 DAY STANDARD RUSH (MUST BE PRE-APPROVED)  |  |  |  |                                 |  |  |  |
| ADDRESS: <u>11 Hazen Dr</u>               |                                  |           |             | JOB NUMBER: _____                    |      |        |                 | 7 day 5 day 4 day 3 day 2 day 1 day Same Day  |  |  |  |                                 |  |  |  |
| CITY/STATE/ZIP: <u>Concord N.H. 03301</u> |                                  |           |             | LOCATION: <u>New Durham</u>          |      |        |                 | MCP <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> GW1 <input type="checkbox"/> GW2 <input type="checkbox"/> GW3 |  |  |  |                                 |  |  |  |
| TELEPHONE: <u>603 858 3041</u>            |                                  |           |             | INVOICE EMAIL: _____                 |      |        |                 |   |  |  |  |                                 |  |  |  |
| REPORT TO: <u>Thom's Earth</u>            |                                  |           |             | INVOICE TO: _____                    |      |        |                 |   |  |  |  |                                 |  |  |  |
| EMAIL TO: <u>Powder Mill Habitat</u>      |                                  |           |             | P.O. NUMBER: _____                   |      |        |                 |   |  |  |  |                                 |  |  |  |
| STATION #                                 | SAMPLE IDENTIFICATION & LOCATION | COLLECTED | SAMPLE TYPE | GRAB                                 | COMP | MATRIX | # OF CONTAINERS | CONTAINER AND PRESERVATIVE  |  |  |  | ANALYSIS                        |  |  |  |
| 001 N.D. #1                               | DATE: 9/9 TIME: 8:38             | ✓         | L           | 1                                    | ✓    |        |                 | H2SO4   |  |  |  | T. Nitrogen                     |  |  |  |
| 001 N.D. #2                               | DATE: 9/9 TIME: 8:38             | ✓         | L           | 1                                    | ✓    |        |                 | HNO3  |  |  |  | T. Phos                         |  |  |  |
| 001 N.D. #3                               | DATE: 9/9 TIME: 8:38             | ✓         | L           | 1                                    |      |        |                 |   |  |  |  | BOD TSS                         |  |  |  |
| 003 LS #1                                 | DATE: 9/9 TIME: 8:35             | ✓         | L           | 1                                    | ✓    |        |                 |   |  |  |  |                                 |  |  |  |
| 003 LS #2                                 | DATE: 9/9 TIME: 8:35             | ✓         | L           | 1                                    | ✓    |        |                 |   |  |  |  |                                 |  |  |  |
| 003 LS #3                                 | DATE: 9/9 TIME: 8:35             | ✓         | L           | 1                                    |      |        |                 |   |  |  |  |                                 |  |  |  |
| CUSTODY                                   |                                  |           |             | SAMPLER: <u>Thom's Earth</u>         |      |        |                 | SAMPLE CHECK LIST:  |  |  |  | FIELD READINGS(S) & COMMENTS:   |  |  |  |
|   |                                  |           |             | SIGNATURE: _____                     |      |        |                 | DATE: 9/10/13 TIME: 13:00   |  |  |  | RECEIVED WITHIN HOLD TIME       |  |  |  |
|   |                                  |           |             |                                      |      |        |                 | DATE: 9/10/13 TIME: 13:05   |  |  |  | RECEIVED IN GOOD COGNITION      |  |  |  |
|   |                                  |           |             |                                      |      |        |                 | DATE: 9/10/13 TIME: 13:06   |  |  |  | TEMP BLANK 9.4°C                |  |  |  |
|   |                                  |           |             |                                      |      |        |                 |   |  |  |  | SHIPPED OR HAND DELIVERED       |  |  |  |
|   |                                  |           |             |                                      |      |        |                 |   |  |  |  | SAMPLES WERE PROPERLY PRESERVED |  |  |  |
|   |                                  |           |             |                                      |      |        |                 |   |  |  |  | IF NO EXPLAIN:                  |  |  |  |
|   |                                  |           |             |                                      |      |        |                 |   |  |  |  | GROUP # 13090102 9/24           |  |  |  |

Sample Discrepancy / Resolution Form

Company: Powder Mill Hatchery

Laboratory #: 13090102 Control #: \_\_\_\_\_

Sample Identification: -001, -002

**Discrepancy:**

C.V.C. has collect date of 9/9 for these comp samples but does not have end date.

Sample bottles indicate it was a 24hr comp with end <sup>collect</sup> date of 9/10 @ 8:28 for -001 and 9/10 @ 8:35 for -002.

**Resolution:**

Added comp end dates. (P)

Comp dates correction containers

CBlaissdell  
Received By Sample Custodian

9-20-13.  
Date

Please CC to the following people: